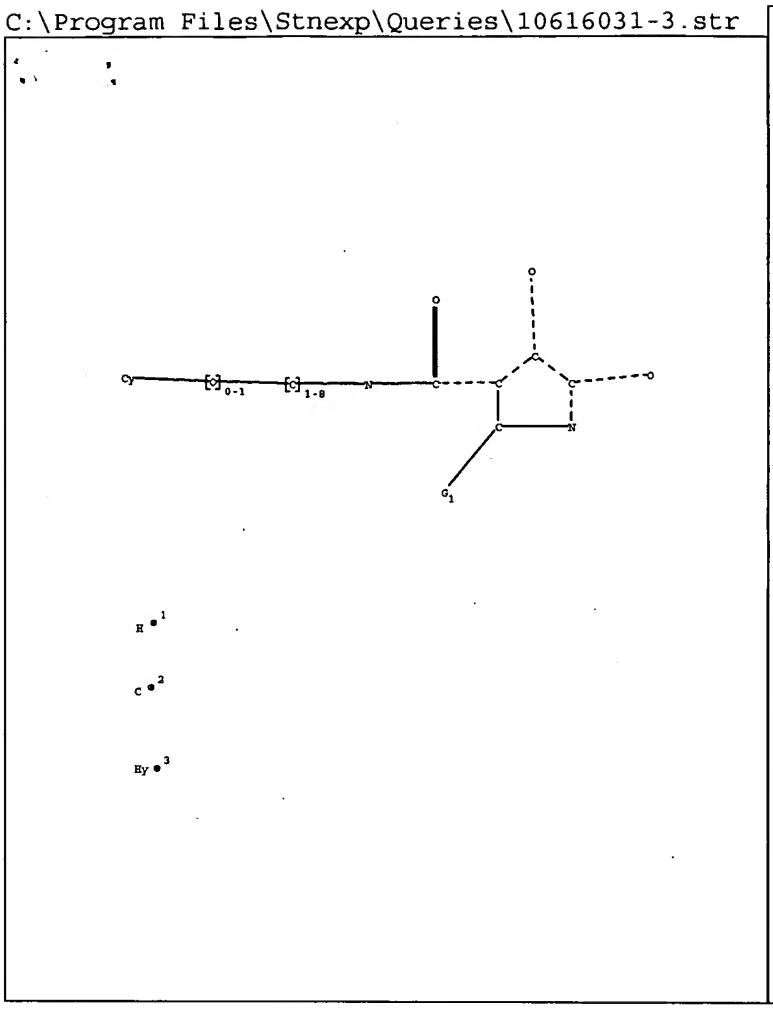
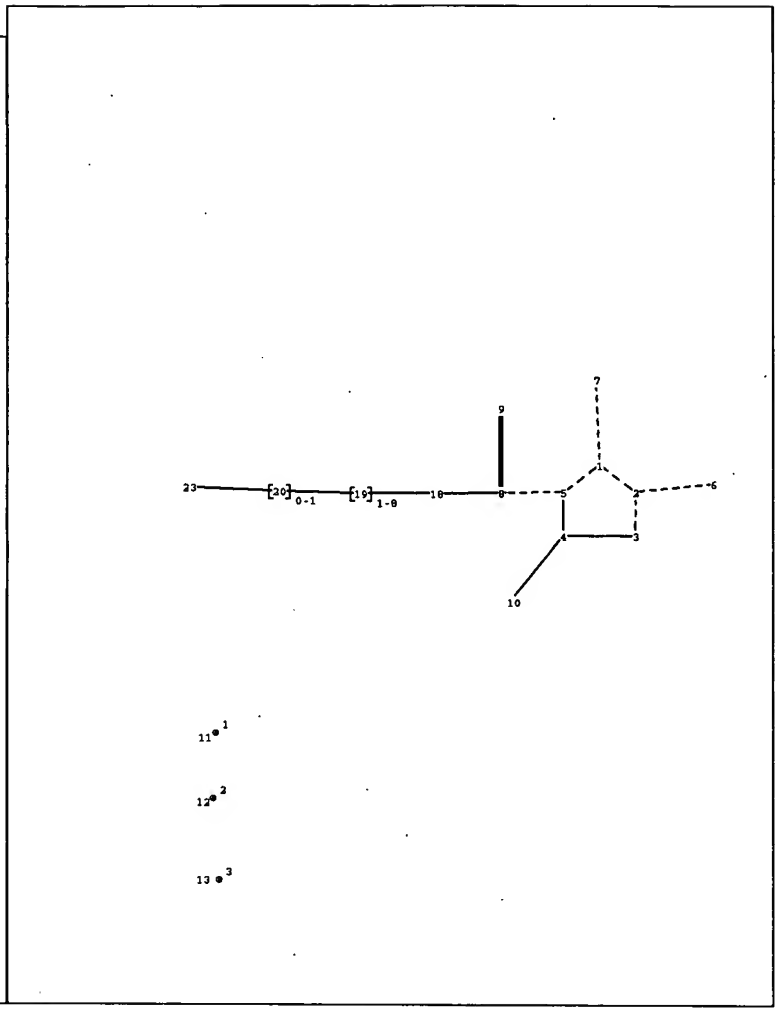
C:\Program Files\Stnexp\Queries\10616031-3.str





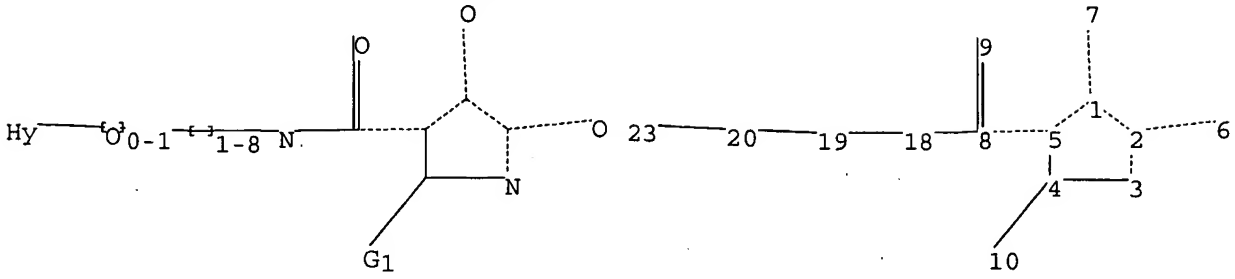
chain nodes :
6 7 8 9 10 11 13 18 19 20 23
ring nodes :
1 2 3 4 5
ring/chain nodes :
12
chain bonds :
1-7 2-6 4-10 5-8 8-9 8-18 18-19 19-20 20-23
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 1-7 2-3 2-6 3-4 4-5 4-10 5-8 8-9 8-18 18-19 19-20 20-23

G1:[*1],[*2],[*3]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:Atom 18:CLASS 19:Atom 20:CLASS 23:Atom

10/616031

=>
Uploading C:\Program Files\Stnexp\Queries\10616031-2.str



H v1

C v2

H v3

1 v1

1 v2

1 v3

chain nodes :
6 7 8 9 10 11 13 18 19 20 23
ring nodes :
1 2 3 4 5
ring/chain nodes :
12
chain bonds :
1-7 2-6 4-10 5-8 8-9 8-18 18-19 19-20 20-23
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 1-7 2-3 2-6 3-4 4-5 4-10 5-8 8-9 8-18 18-19 19-20 20-23

G1:[*1],[*2],[*3]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:Atom 18:CLASS 19:Atom 20:CLASS 23:Atom

L5 STRUCTURE UPLOADED

chain nodes :
6 7 8 9 10 11 13 18 19 20 23
ring nodes :
1 2 3 4 5
ring/chain nodes :
12
chain bonds :
1-7 2-6 4-10 5-8 8-9 8-18 18-19 19-20 20-23
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 1-7 2-3 2-6 3-4 4-5 4-10 5-8 8-9 8-18 18-19 19-20 20-23

G1:[*1],[*2],[*3]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:Atom 18:CLASS 19:Atom 20:CLASS 23:Atom

L8 STRUCTURE UPLOADED

=> d l8
L8 HAS NO ANSWERS
L8 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l8
SAMPLE SEARCH INITIATED 18:01:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 58 TO ITERATE

100.0% PROCESSED 58 ITERATIONS 46 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 704 TO 1616
PROJECTED ANSWERS: 514 TO 1326

L9 46 SEA SSS SAM L8

=> s l9 sss full
FULL SEARCH INITIATED 18:01:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1129 TO ITERATE

100.0% PROCESSED 1129 ITERATIONS 891 ANSWERS
SEARCH TIME: 00.00.01

L10 891 SEA SSS FUL L8

=> s l8 sss full
FULL SEARCH INITIATED 18:01:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1129 TO ITERATE

100.0% PROCESSED 1129 ITERATIONS 891 ANSWERS

10/616031

SEARCH TIME: 00.00.01

L11 891 SEA SSS FUL L8

=> save l11
ENTER NAME OR (END):ten616031/a
'TEN616031/A' IN USE
A single name cannot be used for two saved items at the same time.
Enter "Y" if you wish to replace the current saved name with a new
definition. Enter "N" if the current saved definition must be
preserved. You may then reenter the SAVE command with a different
saved name. Enter "DISPLAY SAVED" at an arrow prompt (=>) to see a
list of your currently defined saved names.
REPLACE OLD DEFINITION? Y/(N):y
ANSWER SET L11 HAS BEEN SAVED AS 'TEN616031/A'

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	485.71	654.44

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.73

FILE 'CAPLUS' ENTERED AT 18:02:18 ON 25 JUN 2005
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FILE COVERS 1907 - 25 Jun 2005 VOL 143 ISS 1
FILE LAST UPDATED: 24 Jun 2005 (20050624/ED)

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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l11
L12 2 L11

=> d l12 1-2 bib abs fhitstr

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:41225 CAPLUS
DN 140:111271
TI Preparation of pyrrolecarboxamides as HIV integrase inhibitors
IN Walker, Michael A.; Ma, Zhuping; Naidu, B. Narasimhulu; Sorenson, Margaret E.; Pendri, Annapurna; Banville, Jacques; Plamondon, Serge; Remillard, Roger
PA Bristol-Myers Squibb Company, USA

SO PCT Int. Appl., 331 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

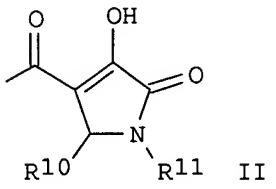
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004004657	A2	20040115	WO 2003-US21371	20030709
WO 2004004657	A3	20041104		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004110804	A1	20040610	US 2003-616031	20030709
PRAI US 2002-394548P	P	20020709		
US 2002-399248P	P	20020729		

OS MARPAT 140:111271
GI



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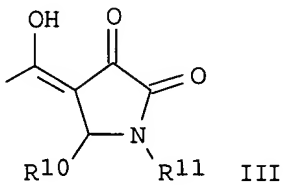

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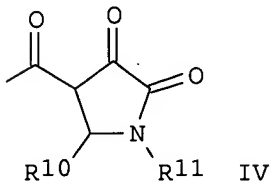

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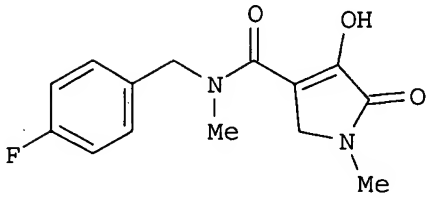


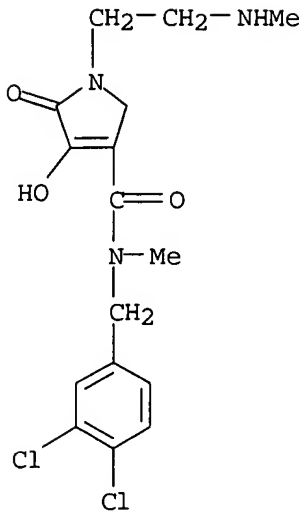
V

AB The title compds. R1CHR2NR3B1 [I; R1 = (un)substituted Ph, naphthyl, furyl, etc.; R2 = H, alkyl, (un)substituted aryl, alkylaryl; R3 = H, alkyl, alkylaryl, (un)substituted OH; B1 = II-IV (wherein R10 = H, alkyl, cycloalkyl, etc.; R11 = alkyl, cycloalkyl, aryl, etc.)] which inhibit HIV integrase, and are useful for treatment of AIDS or ARC, were prepared E.g., a multi-step synthesis of V which showed 99.9% inhibition of HIV integrase at 20 μM, was given. Pharmaceutical composition comprising the compds. I is claimed.

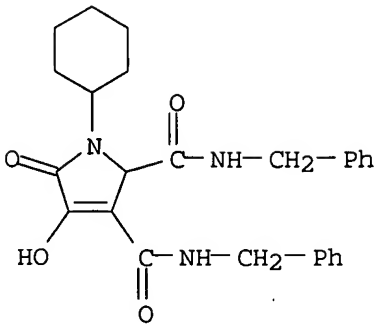
IT **646042-18-4P**
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of pyrrolecarboxamides as HIV integrase inhibitors)

RN 646042-18-4 CAPLUS

CN 1H-Pyrrole-3-carboxamide, N-[(3,4-dichlorophenyl)methyl]-2,5-dihydro-4-hydroxy-N-methyl-1-[2-(methylamino)ethyl]-5-oxo- (9CI) (CA INDEX NAME)

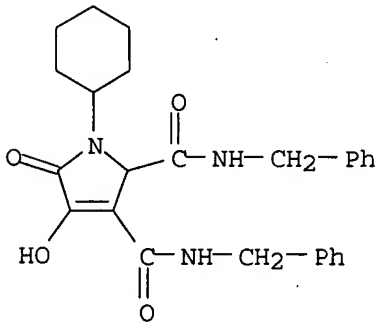


L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1968:114457 CAPLUS
DN 68:114457
TI 1-Carbamoyl- and 1-aminomethyl-1,4-dihydropyrrolo[3,4-b]indole derivatives. Indole formation by fragmentation of strain-barrier stabilized 2-aminoindoline derivatives
AU Southwick, Philip L.; Vida, Julius A.; Fitzgerald, Berenice M.; Lee, Sung Ki
CS Carnegie-Mellon Univ., Pittsburgh, PA, USA
SO Journal of Organic Chemistry (1968), 33(5), 2051-6
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB 1-Substituted-4,5-dicarbethoxy-2,3-dioxopyrrolidines were prepared by addition of primary amines to di-Et maleate, followed by base-catalyzed condensation of the resulting N-substituted di-Et aspartates with Et oxalate. Base-catalyzed amide-ester interchange performed on the 1-cyclohexyl derivative with cyclohexylamine or benzylamine then afforded 1-cyclohexyl-4,5-bis(N-substituted carbamoyl)-2,3-dioxopyrrolidines (I). When treated with acids, I phenylhydrazones underwent the initial transformations of the Fischer indole synthesis to yield 3a-amino-1,8b-bis(N-substituted carbamoyl) - 2 - cyclohexyl - 1,3a,4,8b - tetrahydropyrrolo[3,4 - b]indol-3(2H)-ones (II), which failed to undergo the normal spontaneous NH3 elimination, and therefore did not not form the strained ring system of the corresponding indolenines. Instead, at elevated temps. under acidic or basic conditions II underwent a smooth fragmentation with elimination of both the 3a-amino and 8b-carbamoyl groups to yield 1-(N-substituted carbamoyl)-2 - cyclohexyl - 1,4 - dihydropyrrolo[3,4 - b]indol - 3(2H) - ones (III). LiAlH4 reduction of III under appropriate conditions yielded 1-(N-substituted carbamoyl)- or 1-(N-substituted-aminomethyl)-1,4-dihydropyrrolo[3,4-b]indoles (IV). IV represent a new type of tryptamine analog. 11 references.
IT **16206-08-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 16206-08-9 CAPLUS
CN 3-Pyrroline-2,3-dicarboxamide, N,N'-dibenzyl-1-cyclohexyl-4-hydroxy-5-oxo- (8CI) (CA INDEX NAME)



=> d l12 2 hitstr

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
IT **16206-08-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 16206-08-9 CAPLUS
CN 3-Pyrroline-2,3-dicarboxamide, N,N'-dibenzyl-1-cyclohexyl-4-hydroxy-5-oxo-
(8CI) (CA INDEX NAME)



=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.52	667.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.46	-2.19

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate
substance identification. Title keywords, authors, patent

assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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=> d his

     (FILE 'HOME' ENTERED AT 17:53:57 ON 25 JUN 2005)

     FILE 'REGISTRY' ENTERED AT 17:54:25 ON 25 JUN 2005
L1             STRUCTURE UPLOADED
L2           2 S L1
L3          34 S L1 SSS FULL
               SAVE L3 TEN616031/A

     FILE 'CAPLUS' ENTERED AT 17:55:18 ON 25 JUN 2005
L4           1 S L3

     FILE 'REGISTRY' ENTERED AT 17:58:23 ON 25 JUN 2005
L5             STRUCTURE UPLOADED
L6           0 S L5
L7           0 S L5 SSS FULL
L8             STRUCTURE UPLOADED
L9          46 S L8
L10        891 S L9 SSS FULL
L11        891 S L8 SSS FULL
               SAVE L11 TEN616031/A

     FILE 'CAPLUS' ENTERED AT 18:02:18 ON 25 JUN 2005
L12          2 S L11

     FILE 'CAOLD' ENTERED AT 18:04:10 ON 25 JUN 2005

=> s l11
L13          0 L11

=> file chemcats
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                0.43     668.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                   ENTRY    SESSION
CA SUBSCRIBER PRICE                                0.00      -2.19

FILE 'CHEMCATS' ENTERED AT 18:04:33 ON 25 JUN 2005
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FILE LAST UPDATED 18 JUNE 2005 (20050618/UP)

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prompt. For the list of suppliers currently in the file, enter
HELP SPA, HELP SPBC, HELP SPDH, HELP SPIN, HELP SPOP, and HELP SPQZ.
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10/616031

For the list of current catalogs, enter HELP CTA, HELP CTBC, HELP CTDH, HELP CTIN, HELP CTOP, and HELP CTQZ.

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=> s l11
L14 0 L11

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.88	669.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.19

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 18:04:41 ON 25 JUN 2005